

FY 1998 Technology Deployment in Environmental Management

Solutions of the Future at the INEEL

Site Technology Coordination Group
U.S. Department of Energy, Idaho Operations Office



INEEL



Electronic Signature System in TRIPS

Problem: A trusted means for creating electronic signatures is needed for the Transuranic Reporting and Inventory Processing System (TRIPS).

Baseline Technology: The use of hardcopy reports for waste tracking and accountability. Reports are printed, manually signed, filed or digitally scanned, and maintained in parallel with the TRIPS database records.

Innovative Technology: Incorporation of electronic signatures on database entities which ensures data integrity, user authenticity, and non-repudiation for data and signatures on specific data base entities.

Comparison: General savings of 85% with no paper or handling. Improved data integrity through automated data and signature validation.

Savings: INEEL TRIPS 900K pages/yr. through 2002 = \$9M
Development cost of electronic signature system = -\$1.35M

savings = \$7.65M

